

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) An X-ray apparatus ~~(10) which comprises~~ comprising:
_____ means for producing imaging data of an X-ray exposure in response to actuation of a start switch; and
_____ a first data transmission unit ~~(404)~~ for generating and transmitting a first data set to a further data transmission unit, the first data set (a) being assembled via a software program of an arithmetic unit started simultaneously with actuation of the start switch, (b) including one selected from the group consisting of (b)(i) selected parameters, (b)(ii) automatically adjusted parameters, and (b)(iii) both ~~which comprises~~ selected and/or ~~and~~ automatically adjusted parameters of ~~[[an]] the X-ray exposure, and (c) extended with further information, wherein the further information serves to enhance protection against errors during a transmission of the first data set, the further information including (c)(i) a time stamp, (c)(ii) an unambiguous data set identification number, and (c)(iii) a checksum to a further data transmission unit (204; 305; 404).~~

2. (currently amended) A data processing unit ~~(20)~~ comprising:
_____ means for processing the image data of an X-ray exposure made by means of an X-ray apparatus; and ~~and~~ ~~(10), which data processing unit comprises~~
_____ a ~~second~~ data transmission unit, wherein the data transmission unit is configured (A) ~~(204)~~ for receiving a first data set, the first data set (a) being assembled via a software program of an arithmetic unit started simultaneously with actuation of a start switch of the X-ray apparatus, (b) including ~~which comprises~~ at least one selected from the group consisting of (b)(i) selected parameters, (b)(ii) automatically adjusted parameters, and (b)(iii) both the selected and/or ~~and~~ automatically adjusted parameters of the X-ray exposure, and (c) extended with further information, wherein the further

information serves to enhance protection against errors during a transmission of the first data set, the further information including (c)(i) a time stamp, (c)(ii) an unambiguous data set identification number, and (c)(iii) a checksum, and (B) as well as for forming a fourth second data set, the second data set including which comprises an association between (a) the parameters of the X-ray exposure of the first data set, (b) predetermined patient data, and (c) as well as the image data of the X-ray exposure.

3. (currently amended) A mobile patient data terminal ~~(30)~~ which comprises comprising:
_____ a third data transmission unit, wherein the data transmission unit is configured (A) (305) for receiving a first data set, the first data set (a) being assembled via a software program of an arithmetic unit started simultaneously with actuation of a start switch of an X-ray apparatus, (b) including one selected from the group consisting of (b)(i) selected parameters, (b)(ii) automatically adjusted parameters, and (b)(iii) both which comprises the selected and/or and automatically adjusted parameters of the X-ray exposure, and (c) extended with further information, wherein the further information serves to enhance protection against errors during a transmission of the first data set, the further information including (c)(i) a time stamp, (c)(ii) an unambiguous data set identification number, and (c)(iii) a checksum, and (B) as well as for forming a second data set, wherein the second data set includes whereby predetermined patient data [(is)] associated with the parameters of the X-ray exposure.

4. (currently amended) [[A]] The mobile patient data terminal (30) as claimed in claim 3, further comprising:
_____ a bar code scanner (306) for detecting an image cassette identification number, and wherein the data transmission unit is further configured (C) as well as for forming a third data set by adding the image cassette identification number to the second data set.

5. (currently amended) ~~[[A]] The mobile patient data terminal (30) as claimed in claim 4, in which the third further wherein the data transmission unit (305) is arranged to transmit the third data set formed to a data processing unit (20).~~

6. (currently amended) A diagnostic X-ray system, comprising: which comprises _____ a mobile X-ray apparatus (10) as claimed in claim 1, wherein the mobile X-ray apparatus comprises (A) means for producing imaging data of an X-ray exposure in response to actuation of a start switch, and (B) a first data transmission unit for generating and transmitting a first data set to a further data transmission unit, the first data set (a) being assembled via a software program of an arithmetic unit started simultaneously with actuation of the start switch, (b) including one selected from the group consisting of (b)(i) selected parameters, (b)(ii) automatically adjusted parameters, and (b)(iii) both selected and automatically adjusted parameters of the X-ray exposure, and (c) extended with further information, wherein the further information serves to enhance protection against errors during a transmission of the first data set, the further information including (c)(i) a time stamp, (c)(ii) an unambiguous data set identification number, and (c)(iii) a checksum; and including _____ a data processing unit, wherein the data processing unit comprises (A) means for processing image data of the X-ray exposure made by means of the mobile X-ray apparatus; and (B) a second data transmission unit, wherein the second data transmission unit is configured (i) for receiving the first data set and (ii) for forming a second data set, the second data set including an association between (ii)(a) parameters of the X-ray exposure of the first data set, (ii)(b) predetermined patient data, and (c) the image data of the X-ray exposure (20).

7. (currently amended) ~~[[A]] The system as claimed in claim 6, further comprising a mobile patient data terminal (30).~~

8. (currently amended) A method for ~~the~~ transmission of data in a diagnostic X-ray system, comprising: notably as claimed in claim 6, in which
producing imaging data of an X-ray exposure in response to actuation of a start switch of an X-ray apparatus, and
subsequent to the execution of [[an]] the X-ray exposure in [[an]] the X-ray apparatus, generating and transmitting (10) the parameters selected and/or automatically adjusted for the X-ray exposure are combined so as to form a first data set which is for being transmitted to a further component (20-30) of the diagnostic X-ray system, the first data set (a) being assembled via a software program of an arithmetic unit started simultaneously with actuation of the start switch, (b) including one selected from the group consisting of (b)(i) selected parameters, (b)(ii) automatically adjusted parameters, and (b)(iii) both selected and automatically adjusted parameters of the X-ray exposure, and (c) extended with further information, wherein the further information serves to enhance protection against errors during a transmission of the first data set, the further information including (c)(i) a time stamp, (c)(ii) an unambiguous data set identification number, and (c)(iii) a checksum.

9. (currently amended) [[A]] The method as claimed in claim 8, wherein transmitting in which the first data set formed by the X-ray apparatus (10) is transmitted includes transmitting to a mobile patient data terminal (30) and, the method further comprising:
forming a third data set, wherein the is formed therefrom, which third data set comprises the parameters of the X-ray exposure, preselectable patient data, and as well as an identification number of the an image cassette on which the relevant X-ray exposure is stored.

10. (currently amended) [[A]] The method as claimed in claim 9, the method further comprising: in which
transmitting the third data set formed by the mobile patient data terminal (30) is

~~transmitted~~ to a data processing unit ~~(20)~~; and
~~_____ forming a fourth data set, wherein the is formed therefrom, which fourth data set~~
~~comprises the parameters of the X-ray exposure, preselectable patient data, and as well~~
~~as the image data of the X-ray exposure.~~

11. (new) The X-ray apparatus as claimed in claim 1, further wherein the first data set is configured to be combined with data included in an associated patient data set without gaps and in a consistent manner.

12. (new) The data processing unit as claimed in 2, further wherein the first data set is configured to be combined with data included in an associated patient data set without gaps and in a consistent manner.

13. (new) The mobile patient data terminal as claimed in claim 3, further wherein the first data set is configured to be combined with data included in an associated patient data set without gaps and in a consistent manner.

14. (new) The diagnostic X-ray system as claimed in claim 6, further wherein the first data set is configured to be combined with data included in an associated patient data set without gaps and in a consistent manner.

15. (new) The method as claimed in claim 8, further wherein generating and transmitting the first data set further includes configuring the first data set for being combined with data included in an associated patient data set without gaps and in a consistent manner.